

The background of the slide is a photograph of several oat stalks. The stalks are thin and light brown, with numerous oat heads (spikes) attached. The oat heads are a golden-brown color and have a characteristic elongated, slightly curved shape. They are scattered across the frame, with some in sharp focus and others blurred, creating a sense of depth. The background is a clear, pale blue sky.

T3/Oat tutorials

Tutorial 5: Creating marker panels in T3/Oat

<https://triticeaetoolbox.org/oat/>

T3 marker panels

Marker panels are sets of preselected markers that help to make data selection in T3 easy

- Registered users can create their own private marker panels
- Custom marker panels are saved between T3 sessions
- Private marker panels can be made public upon request

Preselected marker sets

Panel	Markers
QCr.cd19-19A	Select
QCr.cd19lsu9-19A	
QCr.cd19-12D	
QCr.cd11-13A	
QCr.cd19-13A	
Everybody's:	

Tutorial 5: Outline

1. Register/login
2. Selecting T3 markers
3. Creating a marker panel
4. Selecting a marker panel
5. Deleting or modifying a custom marker panel

Section 1: Register/login

- Navigate to the T3/Oat homepage at <https://triticeaetoolbox.org/oat/>
- Register and login to view additional items in the Select menu
 - My Line Panels
 - My Marker Panels

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T3/Oat

Home Select ▾ Analyze ▾ Download ▾ Curate ▾ About T3 ▾

Wizard (Lines, Traits, Trials)

Lines by Properties

Lines by Phenotype

Lines by Haplotype

Lines by Genotype Experiment

My Line Panels

My Marker Panels

Traits and Trials

Markers

Welcome: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by

• Gabe Gusmini (PepsiCo)

• Joe Lutz (General Mills)

• Bruce Roskens (Grain Millers)

• Nicholas Tinker (AAFC)

• Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

Section 2: Selecting T3 markers

First select the markers that you want to form your custom marker panel using either:

Select menu> Markers

or

Select menu> Lines by Genotype Experiment

T3/Oat

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Wizard (Lines, Traits, Trials)

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Section 2: Selecting T3 markers

For example, select markers by name using the “Select Markers” tool

Select markers by name

one or more markers

GMI_ES02_c11747_563
GMI_ES17_c2826_360
GMI_ES17_c20752_1084

Synonyms will be translated.
[Select by name](#)

search using pattern matching

Synonyms will be translated.
[Select by pattern matching](#)

- . - matches any single character
- * - matches zero or more instances of preceding
- ^ - matches at the beginning of value
- \$ - matches at the end of value

If you are unsure of the exact marker name, you can search using a name fragment combined with wildcard values in the “search using pattern matching” window

Section 2: Selecting T3 markers

- Your marker selection will be summarized in the “Current selections” portion of the T3 side panel
- Clicking the “Markers” link will take you back to the “Select Markers” tool

T3/Oat [Contact Us](#)

Home Select Analyze Download Curate About T3

Quick Links

Current selections:

- [Lines: 0](#)
- [Markers: 3](#)
- [Traits: 0](#)
- [Phenotype Trials](#)
- [Genotype Experiments](#)

Quick search...

Select Markers

Currently selected markers

- GMI_ES02_c11747_563
- GMI_ES17_c2826_360
- GMI_ES17_c20752_1084

Section 3: Creating a marker panel

To create your marker panel

- Choose the Select menu> My Marker Panels

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T3/Oat

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Wizard (Lines, Traits, Trials)

Lines by Properties

Lines by Phenotype

Lines by Haplotype

Lines by Genotype Experiment

My Line Panels

My Marker Panels

Traits and Trials

Markers

Select Markers

Currently selected markers

GMI_ES02_c11747_563
GMI_ES17_c2826_360
GMI_ES17_c20752_1084

Section 3: Creating a marker panel

- Your currently selected markers will be displayed in the “Create a Marker Panel” window
- You can manually remove markers from your selection using the “Deselect highlighted markers” option

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T3/Oat

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Quick Links

Current selections:

Lines: 0

Markers: 3

Traits: 0

Phenotype Trials

Genotype Experiments

Quick search...

What's New

March 2016

Create a Marker Panel

Currently selected markers: 3

GMI_ES02_c11747_563
GMI_ES17_c2826_360
GMI_ES17_c20752_1084

Deselect highlighted markers

Panel Name

Description

Create

Section 3: Creating a marker panel

Name your custom marker panel

Create a Marker Panel

Currently selected markers: 3

GMI_ES02_c11747_563
GMI_ES17_c2826_360
GMI_ES17_c20752_1084

Deselect highlighted markers

Panel Name

Qdon.umb-17A/7C

Description

DON QTL identified by He et al (2013).

Create

The marker panel description is an optional field

Section 4: Selecting a marker panel

Your custom marker panels are private and appear in the “Select Markers” tool along with any available public marker panels.

Private marker panels can be made public upon request.

Preselected marker sets

Panel	Markers
Qdon.umb-17A/7C QCr.cdl9-19A QCr.cdl9lsu9-19A QCr.cdl9-12D QCr.cdl11-13A QCr.cdl9-13A Everybody's:	Choose set.

Section 5: Deleting or modifying a custom marker panel

- Use the “My Panels” selection window to delete a custom panel
- It is not possible to modify existing marker panels, instead:
 - Select the marker panel using the “Select Markers” tool
 - Modify your marker selection
 - Delete the custom marker panel
 - Recreate the modified custom marker panel

My Panels			
<div>Qdon.umb-17A/7C QCr.cdl9-19A QCr.cdl9lsu9-19A QCr.cdl9-12D <input type="button" value="Delete"/></div>			
Panel	Markers	Description	
<u>Qdon.umb-17A/7C</u>	3	DON QTL identified by He et al (2013).	
<u>QCr.cdl9-19A</u>	9	Crown rust QTL identified by Babiker et al (2015).	
<u>QCr.cdl9lsu9-19A</u>	4	Crown rust QTL identified by Babiker et al (2015).	
<u>QCr.cdl9-12D</u>	4	Crown rust QTL identified by Babiker et al (2015).	
<u>QCr.cdl11-13A</u>	9	Crown rust QTL identified by Babiker et al (2015).	
<u>QCr.cdl9-13A</u>	2	Crown rust QTL identified by Babiker et al (2015).	

Contact Us

Please contact us if you need help using T3/Oat

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T3/Oat

[Home](#) [Select ▾](#) [Analyze ▾](#) [Download ▾](#) [Manage ▾](#) [About T3 ▾](#)

Quick Links

[Login/Register](#)

Current selections:

[Lines](#): 0

[Markers](#): All

[Traits](#): 0

[Phenotype Trials](#)

[Genotype Experiments](#)

Quick search...

What's New

February 2016

Genetic Maps

An expanded oat consensus map (50,668 markers) is now [available](#) in addition to the Framework Oat Consensus Map (7,202 markers) and the 12 component maps used to develop the consensus map.

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For more information see the [Oat Global](#) website.

T3/Oat is built using the database schema and software developed for [The Triticeae Toolbox](#) (T3). T3 is the web portal for wheat and barley data generated by the [Triticeae Coordinated Agricultural Project](#) (T-CAP), funded by the National Institute for Food and Agriculture ([NIFA](#)) of the US Department of Agriculture ([USDA](#)). [More...](#)

Participants: The templates and instructions for data submission are [here](#). If your data are not totally public, please check the [Data Usage Policy](#).

[Data submission](#)